

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A pressure loaded pilot valve system for a regulator valve connecting an inlet line carrying fluid at an inlet pressure to an outlet line carrying fluid at an outlet pressure, the pressure loaded pilot valve system comprising:

a servo control valve assembly;

a pilot valve assembly;

a supply line connected to the servo control valve assembly, carrying fluid at a supply pressure;

a pilot loading pressure line connecting the servo control valve assembly to the pilot valve assembly, carrying fluid at a pilot loading pressure; and

an exhaust line connecting the servo control valve assembly to the outlet line, the exhaust line carrying fluid at an exhaust pressure from the servo control valve assembly to the outlet line,

wherein the pilot valve opens as the pilot loading pressure increases, and a spring bias in the pilot valve assembly opposes the pilot loading pressure.

2. (Canceled).

3. (Original) The pressure loaded pilot valve system of claim 1, wherein the servo control valve assembly includes an electronic control unit that is operatively connected to a supply pressure solenoid valve.

4. (Original) The pressure loaded pilot valve system of claim 3, wherein the electronic control unit is operatively connected to an exhaust pressure solenoid valve.

5. (Original) The pressure loaded pilot valve system of claim 3, wherein the electronic control unit is operatively connected to a loading pressure transducer.

6. (Previously Presented) A pressure loaded pilot valve system for a regulator valve connecting an inlet line carrying fluid at an inlet pressure to an outlet line carrying fluid at an outlet pressure, the pressure loaded pilot valve system comprising:

a servo control valve assembly;

a pilot valve assembly, including a pilot valve plug movable between a closed position and an open position, a pilot valve diaphragm operatively connected to the pilot valve plug and attached to a pilot valve puller post, and a pilot valve spring configured to urge the pilot valve puller post and the pilot valve diaphragm in a direction so as to urge the pilot valve plug toward the closed position;

a supply line connected to the servo control valve assembly, carrying fluid at a supply pressure;

a pilot loading pressure line connecting the servo control valve assembly to the pilot valve assembly, carrying fluid at a pilot loading pressure; and

an exhaust line connecting the servo control valve assembly to the outlet line, carrying fluid at an exhaust pressure,

wherein the pilot valve opens as the pilot loading pressure increases, and the pilot valve spring produces a spring force that opposes the pilot loading pressure.

7. (Canceled).

8. (Original) The pressure loaded pilot valve system of claim 6, wherein the servo control valve assembly includes an electronic control unit that is operatively connected to a supply pressure solenoid valve.

9. (Original) The pressure loaded pilot valve system of claim 8, wherein the electronic control unit is operatively connected to an exhaust pressure solenoid valve.

10. (Original) The pressure loaded pilot valve system of claim 8, wherein the electronic control unit is operatively connected to a loading pressure transducer.

11 -13. (Canceled).

14. (Previously presented) The pressure loaded pilot valve system of claim 1, wherein the pilot valve includes a spring to close configuration.